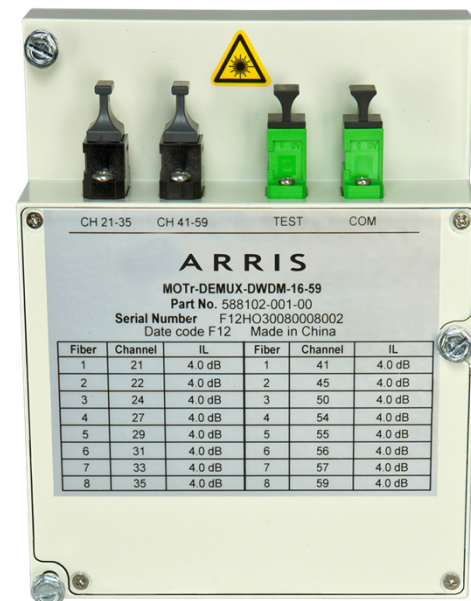


MOTr Optical Solutions

DWDM Headend and Node Optical Passives

FEATURES

- Supports migration to fiber deep networks by maximizing fiber usage
- Full Spectrum multiwavelength solutions simplify complicated designs
- High density optical passives simplify installation
- LGX Style for hub and headend applications
- Ruggedized modules for node and MOTr deployments



PRODUCT OVERVIEW

DWDM Multiwavelength Passives

Dense Wave Division Multiplexing (DWDM) is a technique used to increase transmission capacity by adding multiple optical channels onto a single fiber. Specifically designed for Broadband Full Spectrum multiwavelength solutions, ARRIS MOTr optical passives are a high density, low-cost solution for combining (multiplexing) and separating (demultiplexing) optical channels at hub and node locations. MOTr passives are designed specifically for the ARRIS Broadband Full Spectrum Multiwavelength plan, which allows operators to use on-channel ITU standard passives and minimize the Four Wave Mixing effects seen in downstream transmission when co-propagating multiple wavelengths onto a single fiber.

MOTr optical passives mount into HE-OCM-HSG or HE-1RU-HSG LGX housings, which operators can install in 19- or 23-inch headend racks. ARRIS offers 4-, 8-, and 16-way passive modules with 20 dB test points, which monitor channels and levels without taking down the network signal. The 4- and 8-way models feature upgrade ports that support additional segmentation, while all models feature 100 GHz thin film filter technology. All models are also centered on ITU standards-based channels. Headend modules use high-density SC/APC and LC/APC connectors, which maintain high density in a single wide module. In the field-hardened hub enclosure, node passives use SC/APC and MPO connections to maintain high density.



SPECIFICATIONS HEADEND

Headend (Optical)

Channel Passband	± 0.125 nm
Passband Ripple Flatness	0.25 dB
Insertion Loss, Per Channel	
4-Way	3 dB
8-Way	3.5 dB
16-Way	4.5 dB
Insertion Loss Uniformity	0.25 dB
Adjacent Channel Isolation	35 dB
Optical Return Loss	45 dB
Directivity	55 dB
Input Optical Power Rating	300 mW
Test Point Loss	20 dB
Upgrade Port Loss	1 dB

Headend (Physical)

Operating/Storage Temperature	32° to 122°F (0° to 50°C)
Operating/Storage Humidity	5% to 85% RH
Dimensions	6.25 in D x 1.16 in W x 4.0 in H

SPECIFICATIONS NODE

Node Based (Optical)

Channel Passband	± 0.125 nm
Passband Ripple Flatness	0.25 dB
Insertion Loss, Per Channel	
4-Way	2 dB
8-Way	3 dB
16-Way	4 dB
Insertion Loss Uniformity	0.25 dB
Adjacent Channel Isolation	35 dB
Optical Return Loss	45 dB
Directivity	55 dB
Input Optical Power Rating	300 mW
Test Points	20 dB
Upgrade Port Loss	1 dB

Node Based (Physical)

Operating/Storage Temperature	-40° to 158°F (-40° to 70°C)
Operating/Storage Humidity	5% to 85% RH

Dimensions

4- and 8-Way	5.2 in D x 2.06 in W x 2.20 in H
16-Way	5.2 in D x 4.25 in W x 2.20 in H

RELATED PRODUCTS

Optical Transmitters	Optical Passives
DOCSIS Transponder	Installation Services
Optical Patch Cords	

Customer Care

Contact Customer Care for product information and sales:

- United States: 866-36-ARRIS
- International: +1-678-473-5656

Note: Specifications are subject to change without notice.

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Optical Passives-DWDM